

Abstract

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5 The present invention relates to a combined spring-and-shock-absorber system for supporting wheel suspensions or axles on a vehicle body using a tubular roll bellows arranged between a wheel-bearing or wheel-controlling connection and a connection on the vehicle body side, the bellows being arranged between an outer bell and a rolling piston, the outer bell and the rolling piston, in each case, over the height of the

10 corresponding component, having at least partially varying diameters with respect to the walls that contact the tubular roll bellows, and both ends of the tubular roll bellows being sealingly secured on the rolling piston at segments having different diameters, the lower mounting section having a

15 ~~larger diameter than the upper mounting section.~~ For this purpose, a tubular roll bellows is used, which is configured as a differential roll bellows, whose interior is filled with a fluid and communicates with a hydraulic accumulator supported on the chassis and/or vehicle body.

20 On the basis of the present invention, a combined spring-and-shock-absorber system is developed, which contains a friction-free displacement device in a thin construction.